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NATIONAL SECURITY AGENCY
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REPORT

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SOVIET AIR DEFENSE INSTALLATIONS OF ADVANCED DESIGN LOCATED AT KRASNOVODSK, MURMASHI AND ORSK IN THE USSR

This report presents available [] information concerning three Soviet Air Defense Installations of advanced design.

25X1D [] Photographic intelligence¹/from []25X1D []
pectively, reveals three Soviet Air Defense Installations of advanced design located near Krasnovodsk Airfield (43-03'-10"N 53-01'-20"E), Murmashi (68-44'-45"N 33-00'-30"E), and Orsk Airfield (51-15'-45"N 58-37'-53"E)²/.

The air defense installations at these locations as revealed in [] material, possibly represent the Eastern Zone Headquarters of the Baku ADD, the Severomorsk Zone Headquarters of the Northern ADD, and the Headquarters of Sector V in the Sverdlovsk ADD, respectively (See Chart 1).

DETAILS**A. Krasnovodsk Air Defense Installation**

The Eastern Zone Headquarters of the Baku ADD is located at Krasnovodsk (D%) by [] source³/. Colocated with the zone headquarters is the Headquarters of Sector VI of the Baku ADD, and the Eastern Fighter Operation Center (FOC, FPN 40882 D%) of the Baku PVO Air Army. Also at Krasnovodsk Airfield is the Headquarters of Fighter Division P0605 with two and possibly three regiments.

Photographic intelligence⁴/reveals an air defense installation of apparently modern design located at Krasnovodsk Airfield that possibly represents the aforementioned elements.

The air defense installation consists of revetted bunker type direction center and communications buildings, radar equipment (BIG MESH, ROCK CAKE, and KNIFEREST), IFF equipment (FISHNET), VHF and HF antenna arrays, a microwave communications site and a probable BOX BRICK site, both of which may be associated with the air defense elements. Miscellaneous support facilities are located in close proximity to the various operational elements. The [] material also disclosed four MIG-15, 33 MIG-17, 20 YAK-25, three unidentified type jet fighters, and 11 jet fighters in various stages of assembly as comprising the fighter complement at Krasnovodsk Airfield. This material corroborates and more precisely locates Baku PVO Fighter Division P0605.

1. DPIR T59-7, Feb 59; DPIR T59-11, Mar 59; DPIR T59-17, July 59.
2. 3/O/TALCOM/2-59, 11 Sept 59.
3. 3/ARU/C10140.
4. DPIR T59-7, Feb 59.

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[] evidence¹/ revealed the following complement of equipment at Krasnovodsk; one probable TOKEN, May 1957, one probable ROCK-CAKE, August 1957, one probable KNIFEREST, January 1957, and one possible SLANTMESH, August 1958.

The zone headquarters forwards air defense information for that area of the ADD located to the east of the Caspian Sea to the ADD Headquarters at Baku. Control over the Headquarters of Sector V (FPN 58081 C%), located at Nebit-Dag, in addition to Sector IV is vested in the zone headquarters, while control over Fighter Divisions PO605 (FPN 40495 C%), and PO607 located at Nebit-Dag, is vested in the FOC at Krasnovodsk.

An INERT Control Center is colocated with Headquarters of Sector V at Nebit-Dag, which is approximately 80 nautical miles southeast of Krasnovodsk. Although the INERT Control Center at Nebit-Dag is far removed from the zone headquarters at Krasnovodsk, plain text messages passed on an INERT back-up group²/ between one of the out-stations and the control of the Nebit-Dag INERT group implied the group's immediate control was at Nebit-Dag, but with considerable control being exercised at Krasnovodsk. The zone headquarters may have some degree of control over INERT functions at Nebit-Dag possibly by means of an unidentified/secure communications system between these two elements.

The FOC at Krasnovodsk is an excellent suspect to subscribe to the CASSIA Data Transmission System with the Baku PVO Air Army Headquarters (FPN 78593 C%) at Baku. Although this method of transmission of fighter operational information has not yet been identified in the Baku area it has been previously identified with three of the Moscow PVO Air Army FOC's³/ and one fighter division (PO101)⁴/ in the Leningrad PVO Fighter Organization.

The Eastern Zone Headquarters is believed to subscribe to a multi-channel microwave communications system, designated FRANTIC⁵/ which passes air defense information between the zone headquarters and the Baku ADD Headquarters. This system provides a modern, efficient method of communications between the cities of Krasnovodsk and Baku.

B. Murmashi Air Defense Installation

Analysis of [] material has located the Severomorsk Zone Headquarters and Fighter Authority of the Northern ADD in the Severomorsk area (D%). The zone headquarters and Fighter Authority are responsible for the air defense of the Kola Peninsula area of the Northern ADD.

An air defense installation of apparently modern design has been located by photographic intelligence⁶/ at Murmashi that possibly

1. USAFE EOB, July 59
2. RZFD 00302
3. 3/ARU/C10577, 2/ART-R/CO24
4. 3/O/RUK/R36-59
5. RCA 370385
6. DPIR T59-11, Mar 59

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represents the precise location of the Severomorsk Zone Headquarters and Fighter Authority. The air defense installation is composed of an almost completely buried bunker type direction center, communications buildings, support facilities, radar equipment (BIG MESH, KNIFE-REST), IFF equipment (FISHNET), VHF and possibly HF antenna arrays, three possible microwave towers, and a KRUG site which may be associated with the air defense site.

[] evidence^{1/} revealed the following complement of equipment at Murmashi (68-48N 32-46E): one TOKEN, Sept 58, and one FISHNET, July 57.

The Severomorsk Zone Headquarters, which reports air defense information to the Northern ADD Headquarters at Arkhangel'sk, controls four subordinate outlying sector headquarters located at Pechenga (C%), Severomorsk (D%), Alakurtti (C%), and Tajbola (C%). Three Northern Fleet Naval Fighter Division Headquarters located at Kilpyavr (NO100), Murmansk N.E. (NO102) and Pechenga (NO103), and two 22nd Air Army Fighter Division Headquarters located at Tajbola (T1000) and Alakurtti (T1001) are situated within the Severomorsk Fighter Authority's area of responsibility.

An INERT Control Center^{2/} is located at Murmansk N.E. Airfield (D%) colocated with the Headquarters of Northern Fleet Naval Fighter Division NO102. The [] evidence (D%) indicates that the INERT Control Center and the Murmashi Air Defense Installation revealed in [] are approximately 17 nautical miles apart; however, no air defense communications have been identified between the INERT Control Center and the Severomorsk Zone Headquarters.

The Fighter Authority at the Severomorsk Zone Headquarters is also an excellent suspect to subscribe to the CASSIA Data Transmission System mentioned earlier in this report. The presence of three possible microwave towers at the air defense installation suggest a more secure communication system capability.

The KRUG site, revealed in TALENT material, which is located in close proximity to the air defense installation, may provide supplemental air defense information; however, the many uses attributed to the Soviet KRUG System are best described in two reports on this subject^{3/}.

C. Orsk Air Defense Installation

Attention is invited to an earlier report^{4/} in this series in which the details are given of an association of the Headquarters of Sector V in the Sverdlovsk ADD to an Advanced Design Air Defense Installation at Orsk Airfield. The installation at Orsk is similar to that at Krasnovodsk and Murmashi except it is not as extensive and

1. USAFE EOB, July 59.
2. 3/0/RUK/R206-58 ISHTAR
3. 3/0/RUA/R21-58, and CIA/SC/S-4P/59 []
4. 3/0/TALCOM/2-59, 11 Sept 59

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hardened and is believed to represent a sector rather than a zone headquarters echelon. A lack of [] material has precluded an association of INERT with the Orsk installation.

COMMENTS

The three modern air defense installations discussed in this report have no doubt been a product of the Soviet Union's progress in building a modern air defense system to provide adequate protection against air attack. It is feasible that additional installations similar to or possibly more advanced than the three mentioned in this report are deployed at Soviet Air Defense District Headquarters, Zone Headquarters and INERT Control Centers throughout at least the border areas of the USSR.

The apparent modern design and complexity of the Krasnovodsk and Murmashi installations has caused questions in the intelligence community concerning the possibility that INERT Control Centers are located at these sites. An appraisal of available [] does not substantiate these theories; however, future analytical processing of related [] data will evaluate any possible indications that INERT elements are located at these installations.

The close working relationship evident between the Nebit-Dag INERT Control Center and the Krasnovodsk Zone Headquarters warrants further analysis to define the capability and role of a zone headquarters in its relationship to semi-automatic weapons control systems.

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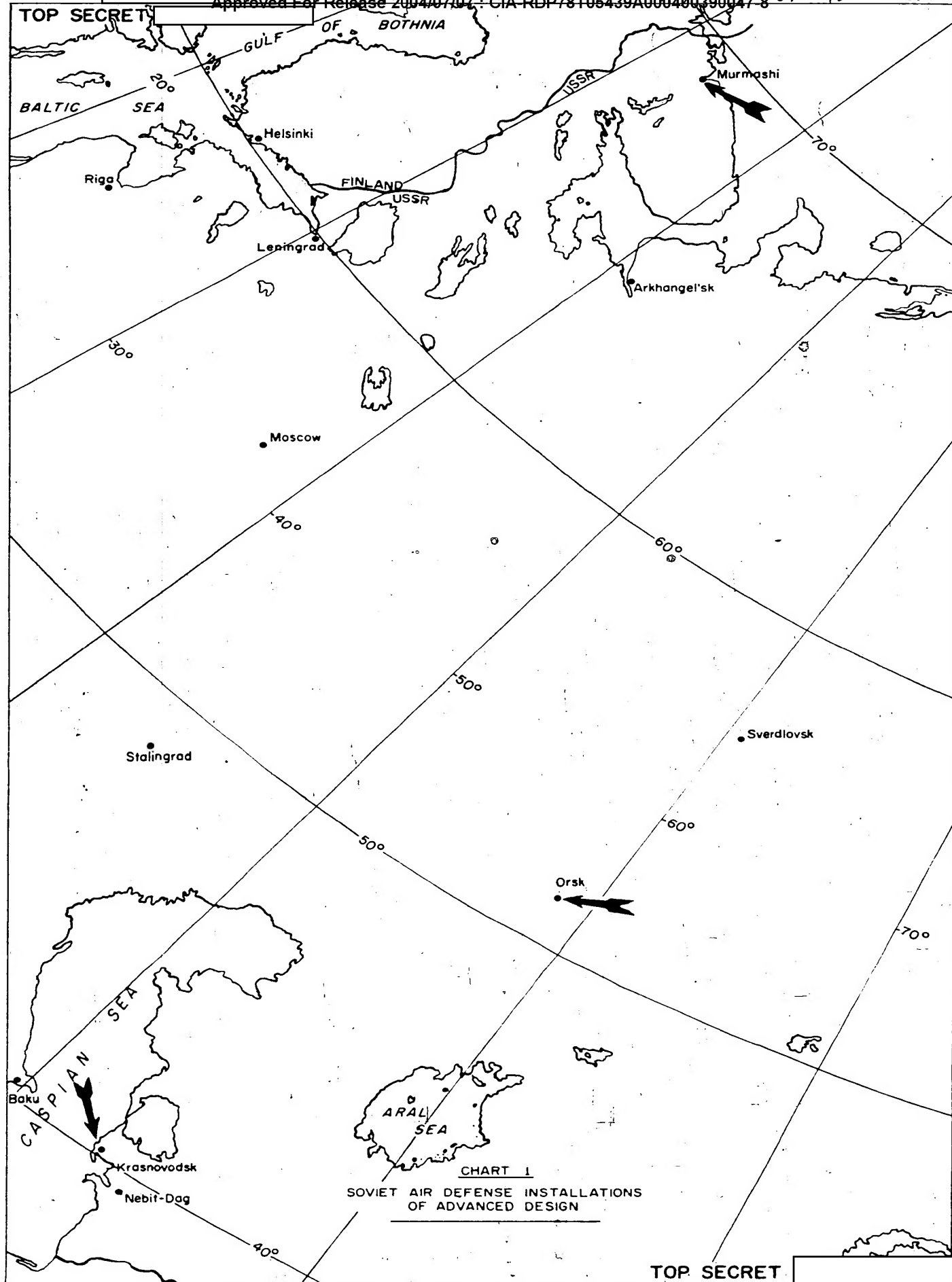
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